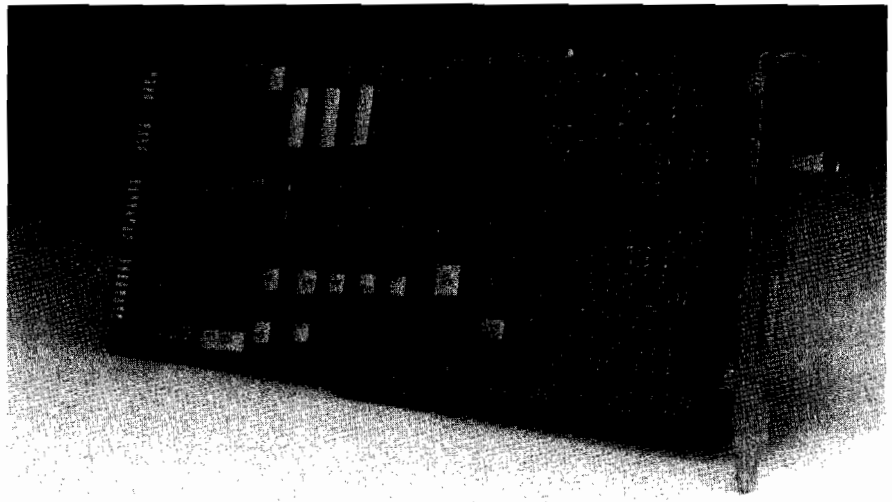# ARCPLUS
series

ARCNETPLUS™ PC LAN Adapter

Benefits

- 20 and 2.5 Mbit/s multi-speed performance

- Novell NetWare drivers

- ATA NetBIOS™ compatible

- ARCNET®compatible

- Designed for ease of installation

- Conforms with ISO/OSI networking model

- Reliable performance

- Emulation or native mode operation

- Large packet size for improved performance

- Mixed ARCNET and ARCPLUS systems are possible

- ISA bus compatible

Applications

- Data Acquisition

- SCADA

- Communication Gateway

- Machine Control

- Process Control

- Operator Interface

The ISA compatible ARCPLUS-CXS LAN Adapter operates over conventional RG-62/u ARCNET cabling.

Description

The 20 million bits per second data transfer rate of ARCPLUS combines with large data packets and the lowest protocol overhead of all commercially available LAN alternatives to provide the optimum PC networking environment in the market today.

Network Compatibility
ARCPLUS is 100 percent compatible with all ARCNET networks. A complete implementation of the ARCNET LAN protocol enables the ARCPLUS PC LAN Adapter to exchange data with an ARCNET LAN Adapter when compatible network operating system drivers are utilized.

ARCNET Emulation Mode
The ARCPLUS PC LAN Adapter provides an ARCNET emulation mode which supports direct compatibility with most ARCNET software drivers. When operating in ARCNET emulation mode, the ARCPLUS PC LAN Adapter appears to the network operating system driver as a traditional I/O

mapped ARCNET adapter. Data transmission is accomplished at 2.5 and 20 Mbit/s depending upon the capabilities of the receiving node. All data and network protocol messages conform to the ARCNET standard.

ARCPLUS Native Mode
The ARCPLUS PC LAN Adapter includes a native mode operation which is accessible to enhanced ARCPLUS network operating system software drivers. The native mode of operation provides significant network performance improvement through the use of large data packets, enhanced network data transmission facilities, and extended network management capabilities.

Standards
The ARCPLUS PC LAN Adapter conforms with the ISO/OSI networking model and is a complete implementation of the ANSI ARCNET Trade Association 878.1 standard for ARCNET LANs.

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ARC Control™

Installation

The ARCPLUS PC LAN Adapter is packaged with software drivers for Novell NetWare versions 2.2 and 3.11. These drivers utilize the ARCPLUS native mode interface which enables NetWare users to exploit all of the enhanced features and performance of ARCPLUS while retaining total use of NetWare system software features. The NetWare version 3.11 driver conforms to the Novell Open Driver Interface (ODI) standard.

To interconnect two or more ARCPLUS adapters, an ARCPLUS compatible hub is required. A port on the ARCPLUS hub can then be used to connect to a network of ARCNET hubs and adapters if multispeed operation is desired.

The ARCPLUS PC LAN Adapter is delivered in the default configuration recommended for use with Novell NetWare ARCNET systems for a PC AT system. All that is required is to select a network address to enable replacement of an existing ARCNET card by the ARCPLUS PC LAN Adapter.

The INSTALL program includes a network diagnostic selection which enables connectivity and data verification prior to loading the network operating systems software.

Specifications

Data Transfer Speed
20 Mbit/s per second
2.5 Mbit/s per second

Hardware Compatibility
IBM PC compatible:
   16-bit AT

Software Compatibility
ARCPLUS enhanced mode:
   Novell NetWare 3.11
   Novell NetWare 2.2

ARCNET emulation mode:
   PCX Series

Network Boot ROM
8K

Network Packet Size
Up to 4,224 Bytes

Memory
64K byte RAM buffers accessible through 16K window in high memory

Diagnostic Software
On-board plus software provided

Certification
FCC Class A, VDE Class B

Operating Temperature
0° to 50°C

Order Information

Model	Description
ARCPLUS-CXS	ARCPLUS PC LAN Coaxial Star Adapter
ARCPLUS-TPS	ARCPLUS PC LAN Twisted-pair Adapter

Contemporary Control Systems, Inc.

ATA
MEMBER